



## 2017 SSC CGL 17 Aug Shift-3

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# Reasoning

## Instructions

For the following questions answer them individually

### Question 1

Select the related word from the given alternatives.

Tongue : Taste :: Nose : ?

- A Smell
- B Face
- C Touch
- D Chin

Answer: A

### Explanation:

Tongue is used to taste, in the same way a nose is used to smell.

=> Ans - (A)

## SSC CGL Free Mock Test

### Question 2

Select the related letters from the given alternatives.

FDH : LJN :: RPT : ?

- A XYZ
- B WUY
- C XVZ
- D SUV

Answer: C

### Explanation:

Expression = FDH : LJN

The pattern followed is :

F	D	H
(+6)	(+6)	(+6)
L	J	N

Similarly, for RPT :

R	P	T
(+6)	(+6)	(+6)
X	V	Z

=> Ans - (C)

### Question 3

Select the related number from the given alternatives.

39 : 52 :: 51 : ?

- A 53
- B 40
- C 68
- D 38

**Answer: C**

**Explanation:**

Expression =  $39 : 52 :: 51 : ?$

The pattern followed is =  $3n : 4n$ , where  $n$  is a natural number.

Eg =  $3(13) : 4(13) = 39 : 52$

Similarly,  $3n = 51$

$$\Rightarrow n = \frac{51}{3} = 17$$

Thus, missing number =  $4 \times 17 = 68$

$\Rightarrow$  Ans - (C)

**Question 4**

Select the odd word from the given alternatives.

- A Nylon
- B Wool
- C Silk
- D Cotton

**Answer: A**

**Explanation:**

Wool, silk and cotton are natural fibres while nylon is a synthetic fibre, hence it is the odd one out.

$\Rightarrow$  Ans - (A)

## SSC CGL Previous Papers (DOWNLOAD PDF)

**Question 5**

Select the odd letters from the given alternatives.

- A ZXV
- B GDA
- C NKH
- D URO

**Answer: A**

**Explanation:**

(A) : Z (-2 letters) = X (-2 letters) = V

(B) : G (-3 letters) = D (-3 letters) = A

(C) : N (-3 letters) = K (-3 letters) = H

(D) : U (-3 letters) = R (-3 letters) = O

=> Ans - (A)

**Question 6**

Select the odd number from the given alternatives.

A 15

B 20

C 40

D 60

**Answer: A**

**Explanation:**

Except 15, all other numbers are divisible by 20.

=> Ans - (A)

**Question 7**

A series is given, with one word missing. Choose the correct alternative from the given ones that will complete the series.

Pension, Aptitude, Captain, Tropical, Autopsy, ?

A Parrot

B Apply

C Trap

D Tetrapod

**Answer: D**

**Explanation:**

Expression : Pension, Aptitude, Captain, Tropical, Autopsy, ?

In each term, the position of letter 'p' is shifted to the right.

Pension (1st place) , Aptitude (2nd place) , Captain (3rd place) , Tropical (4th place) , Autopsy (5th place)

In the next term 'p' should be at 6th position, and the only option available is = Tetrapod

=> Ans - (D)

## SSC CGL Tier-2 Previous Papers PDF

**Question 8**

A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

DEC, HIG, LMK, PQO, TUS, ?

A XYZ

B WXY

C XYW

D YZA

**Answer: C**

**Explanation:**

Expression : DEC, HIG, LMK, PQO, TUS, ?

The pattern followed is that in each letters of the term, the difference is of 4 letters.

1st letter : D, H, L, P, T, X

2nd letter : E, I, M, Q, U, Y

3rd letter : C, G, K, O, S, W

Thus, missing term = **XYW**

=> Ans - (C)

**Question 9**

A series is given, with one number missing. Choose the correct alternative from the given ones that will complete the series.

100, -20, 4, ?, 0.16, -0.032

A 0.8

B 1

C -1

D -0.8

**Answer: D**

**Explanation:**

Each number is divided by  $-5$

$$100 \div -5 = -20$$

$$-20 \div -5 = 4$$

$$4 \div -5 = -0.8$$

$$-0.8 \div -5 = 0.16$$

$$0.16 \div -5 = -0.032$$

=> Ans - (D)

**Question 10**

Chirag's birthday is on Thursday 1st June. On what day of the week will be Reyansh's Birthday in the same year if Reyansh was born on 3rd December?

A Wednesday

B Sunday

C Friday

D Saturday

**Answer: B**

**Explanation:**

According to the question, 1st June is Thursday

$$\text{Number of days left in June} = 30 - 1 = 29$$

$$\text{Similarly, odd days from June till 3rd December} = (29 + 31 + 31 + 30 + 31 + 30 + 3)\%7$$

$$= 1 + 3 + 3 + 2 + 3 + 2 + 3 = 17$$

Now, dividing 17 by 7, remainder = 3

Thus, day on 3rd December = Thursday (+3) = Sunday

=> Ans - (B)

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### Question 11

The weights of 4 boxes are 20, 40, 50 and 30 kilograms. Which of the following cannot be the total weight, in kilograms, of any combination of these boxes and in a combination a box can be used only once

A 140

B 130

C 90

D 120

**Answer: B**

#### Explanation:

Weights of 4 boxes = 20, 40, 50 and 30 kilograms

(A) :  $140 = 20 + 30 + 40 + 50$

(B) : 130 = not possible

(C) :  $90 = 20 + 30 + 40$

(D) :  $120 = 30 + 40 + 50$

=> Ans - (B)

### Question 12

From the given words, select the word which cannot be formed using the letters of the given word.

#### ORDINALS

A DINAR

B ADORN

C SALON

D IDEAL

**Answer: D**

#### Explanation:

The word ORDINALS does not contain any 'E', and thus the word 'Ideal' cannot be formed.

=> Ans - (D)

### Question 13

If QUICKLY is coded as OSGAIJW, then how will HUE be coded as?

A ZMA

B FSC

C HZK

D HNI

Answer: B

Explanation:

QUICKLY is coded as OSGAIJW

The pattern followed is :

Q	U	I	C	K	L	Y
(-2)	(-2)	(-2)	(-2)	(-2)	(-2)	(-2)
O	S	G	A	I	J	W

Similarly, for HUE :

H	U	E
(-2)	(-2)	(-2)
F	S	C

=> Ans - (B)

## SSC CGL Important Questions PDF

Question 14

In a certain code language, '+' represents 'x', '-' represents '+', 'x' represents '÷' and '÷' represents '-'. What is the answer to the following question?

$$42 \times 7 \div 7 + 9 - 62 = ?$$

- A 5
- B 87
- C 22
- D 2

Answer: A

Explanation:

$$\text{Expression} = 42 \times 7 \div 7 + 9 - 62 = ?$$

$$\equiv 42 \div 7 - 7 \times 9 + 62$$

$$= 6 - 63 + 62 = 5$$

=> Ans - (A)

Question 15

If  $17@1=8$ ;  $9@1=4$ ;  $6@4=1$ ; then what is the value of  $8@2=?$

- A 3
- B 26
- C 23
- D 47

Answer: A

Explanation:

The pattern followed is that for  $a@b = \frac{(a-b)}{2}$

$$\text{Eg : } 17@1 = \frac{17-1}{2} = \frac{16}{2} = 8$$

$$\text{and } 9@1 = \frac{9-1}{2} = \frac{8}{2} = 4$$

$$\text{and } 6@4 = \frac{6-4}{2} = \frac{2}{2} = 1$$

$$\text{Similarly, } 8@2 = \frac{8-2}{2} = \frac{6}{2} = 3$$

=> Ans - (A)

#### Question 16

Select the missing number from the given responses

23	114	204
45	25	36
68	89	?

A 157

B 168

C 21

D 15

Answer: B

#### Explanation:

In a column, the sum of two least numbers is equal to the third number.

$$\text{Eg : } 23 + 45 = 68$$

$$\text{and } 25 + 89 = 114$$

$$\text{Similarly, } x + 36 = 204$$

$$\Rightarrow x = 204 - 36 = 168$$

=> Ans - (B)

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#### Question 17

A truck travels 36 km North, then it turns West and travels 9 km, then it turns South and travels 50 km, then it turns to its left and travels 9 km. Where is it now with reference to its starting position?

A 14 km North

B 86 km South

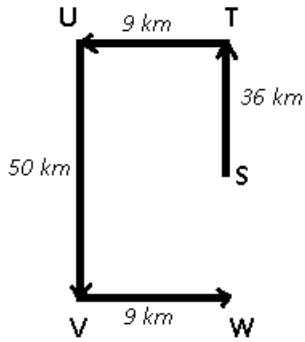
C 86 km North

D 14 km South

Answer: D

#### Explanation:





Let the initial position of the truck be at point S. It travels 36 km towards north and reaches T, and then 9 km to the west and reaches point U,

Then, It travels south for 50 km and finally stops at point W after travelling 9 km.

Thus,  $SW = 50 - 36 = 14$  km

∴ The truck is 14 km to the south with reference to its starting position.

=> Ans - (D)

### Question 18

In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

**Statement 1 :** Some clever are intelligent.

**Statement 2 :** No intelligent is Smart.

**Conclusion I :** Some intelligent are clever.

**Conclusion II :** Some smart are clever.

- A Only conclusion I follows
- B Only conclusion II follows
- C Both I and II follow
- D Neither I nor II follows

**Answer:** A

### Explanation:

The venn diagram for the above statements is :



Conclusion I : Some intelligent are clever = true

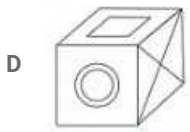
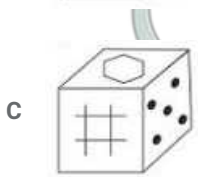
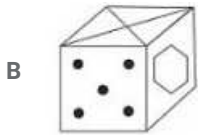
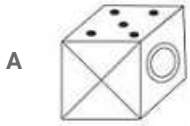
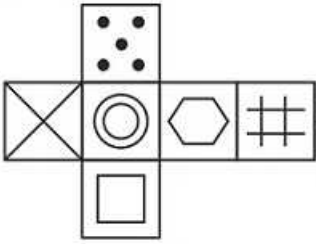
Conclusion II : Some smart are clever = false

Thus, only conclusion I follows.

=> Ans - (A)

Question 19

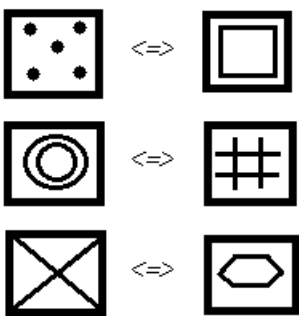
Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



Answer: B

Explanation:

When we fold the given figure, the circle with a '2 circles' sign will become the base of the cube and the side with '#' sign will become top, and thus they will face each other. Similarly, the sides which will face each other will be :



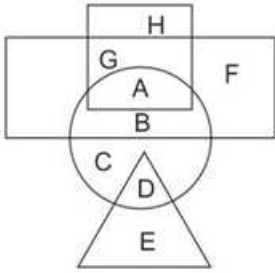
Since, the opposite sides cannot be adjacent in the cube, thus the cube in the second option is not possible.

=> Ans - (B)

**General Science Notes for SSC CGL**

Question 20

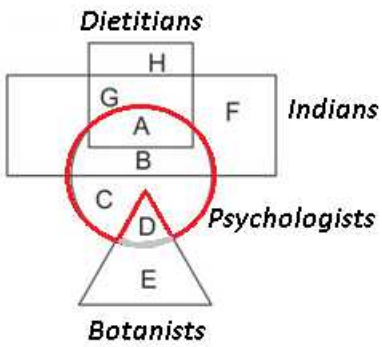
In the following figure, square represents Dietitians, triangle represents Botanists, circle represents Psychologists and rectangle represents Indians. Which set of letters represents Psychologists who are not Botanists?



- A D,G,A
- B A,B,C
- C F,E,C
- D H,B,D

Answer: B

Explanation:

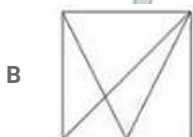
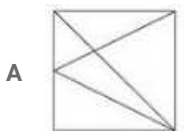
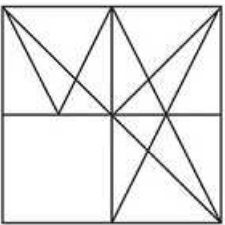


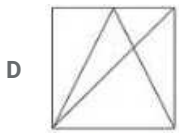
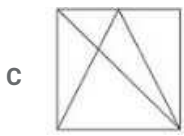
Psychologists who are not Botanists are represented by the red region = A + B + C

=> Ans - (B)

Question 21

Which answer figure will complete the pattern in the question figure

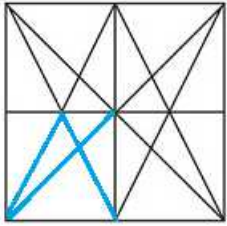




Answer: D

**Explanation:**

When we complete the question figure, we get :

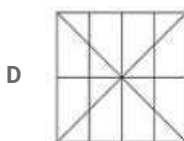
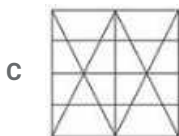
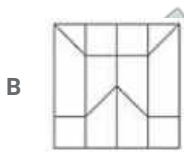
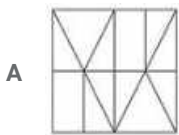
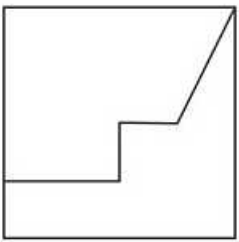


Thus, the last figure resembles the missing figure in blue colour.

=> Ans - (D)

**Question 22**

From the given answer select in one in which the question figure is hidden / embedded



Answer: C

**Explanation:**

The question figure is embedded in the following figure in red colour.



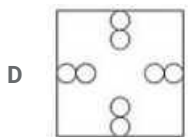
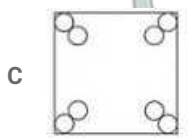
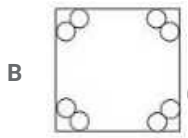
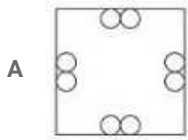
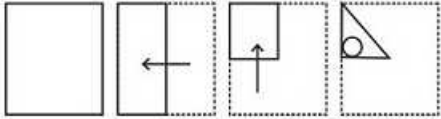
Clearly, the above figure matches the third figure.

=> Ans - (C)

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### Question 23

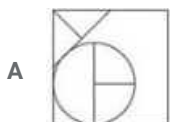
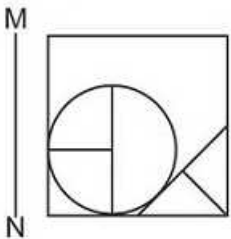
A piece of paper is folded and punched as shown below in the question figures, indicate how it will appear when opened.

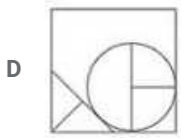
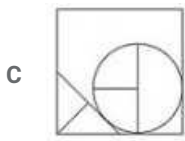
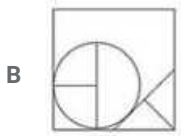


Answer: A

### Question 24

If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?





Answer: D

**Explanation:**

A vertical mirror is placed, thus the objects on the right will appear on the left and vice-versa. So, the 'T' on the bottom right of the square will appear at bottom left in the mirror image, thus the first two options are eliminated.

Also, the figure in the circle will also be reversed, so the third options is also not possible.

=> Ans - (D)

**Question 25**

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example 'K' can be represented by 20, 34 etc and 'Z' can be represented by 67, 88 etc. Similarly, you have to identify the set for the word 'PURE'.

**Matrix - I**

	0	1	2	3	4
0	G	K	D	D	G
1	A	J	F	E	J
2	K	F	H	F	A
3	D	G	M	C	K
4	C	L	H	J	B

**Matrix - II**

	5	6	7	8	9
5	O	T	V	U	R
6	Q	U	Z	Y	T
7	V	Y	X	Q	N
8	Y	R	X	Z	P
9	N	U	Y	U	O

A 89,96,86,13

B 34,34,56,79

C 41,44,67,96

D 01,10,79,57

Answer: A

**Explanation:**

(A) : 89,96,86,13 = PURE

(B) : 34,34,56,79 = KKTN

(C) : 41,44,67,96 = LBZU

(D) : 01,10,79,57 = KANV

=> Ans - (A)

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**Instructions**

For the following questions answer them individually

**Question 26**

What least number must be added to 4131, so that the sum is completely divisible by 19?

- A 10
- B 11
- C 9
- D 12

**Answer: B**

**Explanation:**

Factorizing  $4131 = 19 \times 217 + 8$

Thus, on dividing 4131 by 19, the remainder is 8

$\therefore$  The number that must be added to 4131 so that the sum obtained is completely divisible by 19

$$= 19 - 8 = 11$$

$\Rightarrow$  Ans - (B)

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**Question 27**

A, B and C can finish a job working alone in 12, 8 and 24 days respectively. In how many days they can finish the job if they worked together?

- A 5
- B 6
- C 4
- D 3

**Answer: C**

**Explanation:**

A, B and C can finish the job working alone in 12, 8 and 24 days respectively.

$$\Rightarrow (A+B+C)\text{'s combined efficiency} = \frac{1}{12} + \frac{1}{8} + \frac{1}{24}$$

$$= \frac{(2+3+1)}{24} = \frac{6}{24} = \frac{1}{4}$$

$\therefore$  Time taken by them to finish the job together = 4 days

$\Rightarrow$  Ans - (C)

**Question 28**

What is the area (in sq cm) of an equilateral triangle of side 14 cm?

- A  $49\sqrt{3}$
- B  $98\sqrt{3}$
- C  $(49/2\sqrt{3})$

D  $(49/4\sqrt{3})$

**Answer:** A

**Explanation:**

Side of equilateral triangle =  $a = 14$  cm

=> Area of equilateral triangle =  $\frac{\sqrt{3}}{4} a^2$

$$= \frac{\sqrt{3}}{4} \times (14)^2$$

$$= \frac{196}{4} \sqrt{3} = 49\sqrt{3} \text{ cm}^2$$

=> Ans - (A)

**Question 29**

**What is the effective discount (in %) on two successive discounts of 20% and 10%?**

A 30

B 32

C 35

D 28

**Answer:** D

**Explanation:**

Let list price = Rs.  $100x$

After first discount of 20%, price =  $100x \times \frac{(100-20)}{100} = 80x$

After second discount of 10%, price =  $80x \times \frac{(100-10)}{100} = 72x$

=> Equivalent discount =  $\frac{100x-72x}{100x} \times 100$

= 28%

=> Ans - (D)

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**Question 30**

**Profit of Rs 1,03,500 has to be divided between three partners A, B and C in the ratio 11:7:5. How much amount (in Rs) does B get?**

A 22,500

B 49,500

C 50,500

D 31,500

**Answer:** D

**Explanation:**

Ratio of profit between A, B and C = 11 : 7 : 5

Total profit = Rs. 1,03,500

=> Amount that B will get =  $\frac{7}{(11+7+5)} \times 1,03,500$

=  $7 \times 4500 = \text{Rs. } 31,500$



=> Ans - (D)

**Question 31**

The average weight of P, Q and R is 45 kg. If the average weight of P and Q be 36.5 kg and that of Q and R be 52 kg, then what is the weight (in kgs) of Q?

- A 42
- B 44
- C 46
- D 48

**Answer: A**

**Explanation:**

Let weights of P, Q and R be  $p, q, r$  kg respectively.

Average weight of P, Q and R = 45 kg

$$\Rightarrow \text{Sum of weights of P, Q and R} = (p + q + r) = 3 \times 45 = 135 \text{ kg} \text{ -----(i)}$$

Average weight of P and Q = 36.5 kg

$$\Rightarrow \text{Sum of weights of P and Q} = (p + q) = 2 \times 36.5 = 73 \text{ kg} \text{ -----(ii)}$$

$$\text{Similarly, sum of weights of Q and R} = (q + r) = 2 \times 52 = 104 \text{ kg} \text{ -----(iii)}$$

Adding equations (ii) and (iii),

$$\Rightarrow p + 2q + r = 73 + 104 = 177 \text{ -----(iv)}$$

Subtracting equation (i) from (iv),

$$\Rightarrow q = 177 - 135 = 42 \text{ kg}$$

=> Ans - (A)

**Question 32**

A shopkeeper by selling 21 items earns a profit equal to the selling price of 1 item. What is his profit percentage?

- A 5.5
- B 2.2
- C 2
- D 5

**Answer: D**

**Explanation:**

Let cost price of an item =  $Rs.x$

Selling price of an item =  $Rs.y$

$$\Rightarrow \text{Profit of 21 items} = Rs.21(y - x)$$

$$\text{According to ques, } \Rightarrow 21(y - x) = y$$

$$\Rightarrow 21y - 21x = y$$

$$\Rightarrow 20y = 21x$$

$$\Rightarrow \frac{x}{y} = \frac{20}{21}$$

Let Cost price,  $x = 20$  and selling price,  $y = 21$

$$\begin{aligned}\therefore \text{Profit \%} &= \frac{y-x}{x} \times 100 \\ &= \frac{21-20}{20} \times 100 \\ &= \frac{100}{20} = 5\%\end{aligned}$$

=> Ans - (D)

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### Question 33

What is the value of 10% of 150% of 400?

- A 600
- B 50
- C 500
- D 60

Answer: D

#### Explanation:

Expression : 10% of 150% of 400

$$\begin{aligned}&= \frac{10}{100} \times \frac{150}{100} \times 400 \\ &= 15 \times 4 = 60\end{aligned}$$

=> Ans - (D)

### Question 34

To cover a distance of 144 km in 3.2 hours what should be the average speed of the car in meters/second?

- A 12.5
- B 10
- C 7.5
- D 15

Answer: A

#### Explanation:

Distance to be covered = 144 km and time = 3.2 hours

Speed = distance/time

$$= \frac{144}{3.2} = 45 \text{ km/hr}$$

$\therefore$  Speed of the car in meters/second =  $45 \times \frac{5}{18}$

$$= \frac{25}{2} = 12.5 \text{ m/s}$$

=> Ans - (A)

### Question 35

If in 2 years at simple interest the principal increases by 18%, what will be the compound interest (in Rs) earned on Rs 7000 in 3 years at the same rate?

- A 1865.2

- B 2065.2
- C 1965.2
- D 1765.2

**Answer: B**

**Explanation:**

Let the principal amount = Rs.  $100x$

$$\Rightarrow \text{Simple interest} = \frac{18}{100} \times 100x = \text{Rs. } 18x$$

Let rate of interest =  $r\%$  and time period = 2 years

$$\Rightarrow S.I. = \frac{P \times r \times t}{100}$$

$$\Rightarrow \frac{100x \times r \times 2}{100} = 18x$$

$$\Rightarrow 2r = 18$$

$$\Rightarrow r = \frac{18}{2} = 9\%$$

Now, Sum under compound interest = Rs. 7000 and time = 3 years

$$\therefore \text{Compound interest} = P[(1 + \frac{r}{100})^t - 1]$$

$$= 7000[(1 + \frac{9}{100})^3 - 1]$$

$$= 7000[(\frac{109}{100})^3 - 1]$$

$$= 7000 \times (\frac{1,295,029 - 1,000,000}{1,000,000})$$

$$= 7 \times 295.029 = \text{Rs. } 2065.2$$

$\Rightarrow$  Ans - (B)

## SSC CHSL Previous Question papers (download pdf)

**Question 36**

If  $x/3 - [5(7x/5 - 4/3)]/2 = -x/6$ , then what is the value of  $x$ ?

- A  $10/9$
- B  $-10/9$
- C  $-9/10$
- D  $9/10$

**Answer: A**

**Explanation:**

$$\text{Expression: } \frac{x}{3} - \frac{5(7x/5 - 4/3)}{2} = \frac{-x}{6}$$

$$= \frac{x}{3} - [2(\frac{21x-20}{15})] = \frac{-x}{6}$$

$$= \frac{10x}{30} - (\frac{105x-100}{30}) = \frac{-x}{6}$$

Multiplying both sides by 30, we get :

$$= 10x - 105x + 100 = -5x$$

$$= 105x - 10x - 5x = 90x = 100$$

$$= x = \frac{100}{90} = \frac{10}{9}$$

=> Ans - (A)

**Question 37**

If  $a^3 + b^3 = 19$  and  $a + b = 1$ , then what is the value of  $ab$ ?

- A 5
- B -6
- C 7
- D -9

**Answer: B**

**Explanation:**

Given :  $a^3 + b^3 = 19$  -----(i)

Also,  $a + b = 1$  -----(ii)

Cubing both sides, we get :

$$\Rightarrow (a + b)^3 = (1)^3$$

$$\Rightarrow a^3 + b^3 + 3ab(a + b) = 1$$

Substituting values from equation (i) and (ii)

$$\Rightarrow 19 + 3ab(1) = 1$$

$$\Rightarrow 3ab = 1 - 19 = -18$$

$$\Rightarrow ab = \frac{-18}{3} = -6$$

=> Ans - (B)

**Question 38**

A positive fraction is greater than its reciprocal by  $72/77$ . What is the fraction?

- A 7/11
- B 11/7
- C 4/7
- D 7/4

**Answer: B**

**Explanation:**

Let the fraction be  $x$

According to ques,

$$\Rightarrow x - \frac{1}{x} = \frac{72}{77}$$

$$\Rightarrow \frac{x^2 - 1}{x} = \frac{72}{77}$$

$$\Rightarrow 77x^2 - 77 = 72x$$

$$\Rightarrow 77x^2 - 72x - 77 = 0$$

$$\Rightarrow 77x^2 - 121x + 49x - 77 = 0$$

$$\Rightarrow 11x(7x - 11) + 7(7x - 11) = 0$$

$$\Rightarrow (7x - 11)(11x + 7) = 0$$

$$\Rightarrow x = \frac{11}{7}, \frac{-7}{11}$$

$\therefore x$  is positive,  $\Rightarrow x = \frac{11}{7}$

$\Rightarrow$  Ans - (B)

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### Question 39

What is the sum of the first 12 terms of an arithmetic progression if the first term is -19 and last term is 36?

- A 192
- B 230
- C 102
- D 214

Answer: C

#### Explanation:

First term of AP =  $a = -19$  and last term =  $l = 36$

Number of terms =  $n = 12$

$$\text{Sum of AP} = \frac{n}{2}(a + l)$$

$$= \frac{12}{2}(-19 + 36)$$

$$= 6 \times 17 = 102$$

$\Rightarrow$  Ans - (C)

### Question 40

What is the reflection of the point (-2, 5) in the line  $x = -1$ ?

- A (-2, -7)
- B (0, 5)
- C (2, 5)
- D (-2, 7)

Answer: B

#### Explanation:

Reflection of point  $(x, y)$  in line  $x = a$  is  $(-x + 2a, y)$

Now, Reflection of point (-2, 5) in line  $x = -1$

$$= [2 + 2(-1), 5] = (0, 5)$$

$\Rightarrow$  Ans - (B)

### Question 41

Point P is the midpoint of segment AB. Co-ordinates of P are (3, 1) and B are (5, -4) What are the co-ordinates of point A?

- A (-1, 7)
- B (1, -7)
- C (1, 6)

D (-1, -7)

Answer: C

Explanation:

Coordinates of mid point of line joining points  $(x_1, y_1)$  and  $(x_2, y_2) = \left( \frac{x_1+x_2}{2}, \frac{y_1+y_2}{2} \right)$

Let coordinates of Point A =  $(x, y)$

P = (3,1) and B = (5,-4)

$$\Rightarrow 3 = \frac{x+5}{2}$$

$$\Rightarrow x = 6 - 5 = 1$$

$$\text{Similarly, } 1 = \frac{y-4}{2}$$

$$\Rightarrow y = 2 + 4 = 6$$

Thus, coordinates of Point A = (1,6)

$\Rightarrow$  Ans - (C)

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Question 42

What is the slope of the line perpendicular to the line passing through the points (-5, 1) and (-2, 0)?

A -3

B 3

C -1/3

D 1/3

Answer: B

Explanation:

Slope of the line passing through the points (-5, 1) and (-2, 0) =  $\frac{0-1}{-2+5} = \frac{-1}{3}$

Let slope of line perpendicular to it =  $m$

Also, product of slope of two perpendicular lines = -1

$$\Rightarrow m \times \frac{-1}{3} = -1$$

$$\Rightarrow m = (-1) \times (-3) = 3$$

$\Rightarrow$  Ans - (B)

Question 43

$\Delta ABC$  is similar to  $\Delta PQR$ . If ratio of perimeter of  $\Delta ABC$  : perimeter of  $\Delta PQR$  is 5:9 and if PQ = 45 cm, then the length of AB (in cm) is?

A 15

B 20

C 25

D 16

Answer: C

Explanation:

Let  $AB = x$  cm and  $PQ = 45$  cm

It is given that  $\triangle ABC \sim \triangle PQR$

Also, ratio of perimeter of  $\triangle ABC$  : perimeter of  $\triangle PQR = 5 : 9$

$\Rightarrow$  Ratio of Perimeter of  $\triangle ABC$  : Perimeter of  $\triangle PQR =$  Ratio of corresponding sides =  $AB : PQ$

$$\Rightarrow \frac{x}{45} = \frac{5}{9}$$

$$\Rightarrow x = 45 \times \frac{5}{9} = 25 \text{ cm}$$

$\Rightarrow$  Ans - (C)

#### Question 44

What is the value of  $(1/\sqrt{2} \cot 45^\circ) + (1/\sqrt{3} \operatorname{cosec} 60^\circ)$ ?

A  $(\sqrt{6} + 1)/\sqrt{3}$

B  $\sqrt{3}$

C  $(1 + 3\sqrt{2})/\sqrt{3}$

D  $(3 + 2\sqrt{2})/3\sqrt{2}$

Answer: D

#### Explanation:

Expression :  $(1/\sqrt{2} \cot 45^\circ) + (1/\sqrt{3} \operatorname{cosec} 60^\circ)$

$$= \left(\frac{1}{\sqrt{2}} \times 1\right) + \left(\frac{1}{\sqrt{3}} \times \frac{2}{\sqrt{3}}\right)$$

$$= \frac{1}{\sqrt{2}} + \frac{2}{3}$$

$$= \frac{3 + 2\sqrt{2}}{3\sqrt{2}}$$

$\Rightarrow$  Ans - (D)

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#### Question 45

$\triangle ABC$  is right angled at B. If  $m\angle A = 60^\circ$ , then what is the value of  $\sec C \cdot \sin A$ ?

A  $2/\sqrt{3}$

B  $\sqrt{3}/2$

C  $2/3$

D 1

Answer: D

#### Explanation:

Given :  $m\angle A = 60^\circ$  and  $m\angle B = 90^\circ$

$\Rightarrow$  In  $\triangle ABC$ ,

$$\Rightarrow \angle A + \angle B + \angle C = 180^\circ$$

$$\Rightarrow \angle C + 60^\circ + 90^\circ = 180^\circ$$

$$\Rightarrow \angle C = 180^\circ - 150^\circ = 30^\circ$$

To find :  $\sec C \cdot \sin A$

$$= \sec(30^\circ) \times \sin(60^\circ)$$

$$= \frac{2}{\sqrt{3}} \times \frac{\sqrt{3}}{2} = 1$$

=> Ans - (D)

#### Question 46

If  $\tan \theta = 7/24$ , then what is the value of  $\sec \theta$ ?

A 24/25

B 24/7

C 25/7

D 25/24

Answer: D

Explanation:

$$\text{Expression : } \tan \theta = \frac{7}{24}$$

$$\text{Using, } \sec^2 \theta - \tan^2 \theta = 1$$

$$\Rightarrow \sec^2 \theta = 1 + \left(\frac{7}{24}\right)^2$$

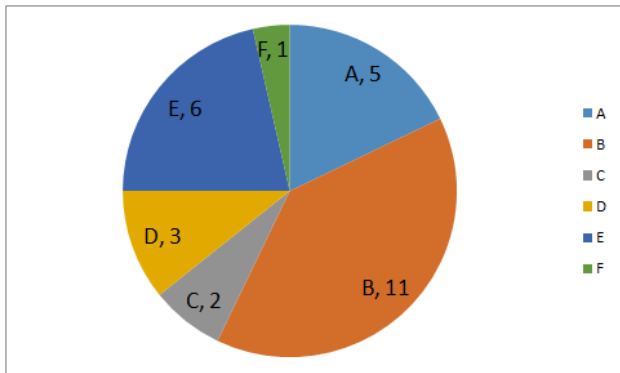
$$\Rightarrow \sec^2 \theta = 1 + \frac{49}{576} = \frac{625}{576}$$

$$\Rightarrow \sec \theta = \sqrt{\frac{625}{576}} = \frac{25}{24}$$

=> Ans - (D)

#### Instructions

The pie chart shows tickets sold (in 1000 s) per month by six different airlines (A, B, C, D, E, F). Study the diagram and answer the following questions.



#### Question 47

Which airline sold the second highest number of tickets?

A E

B A

C B

D D

Answer: A

Explanation:

Clearly, **Airline E** sold the second highest number of tickets = 6000



=> Ans - (A)

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### Question 48

Airline E sold how many more tickets than Airline A?

- A 25%
- B 16%
- C 20%
- D 10%

Answer: C

#### Explanation:

Number of tickets sold by Airline E (in thousands) = 6

Number of tickets sold by Airline A (in thousands) = 5

$$\Rightarrow \text{Required \%} = \frac{6-5}{5} \times 100$$

$$= \frac{100}{5} = 20\%$$

=> Ans - (C)

### Question 49

The ratio of tickets sold by Airlines A and D to tickets sold by Airline E is?

- A 3 : 4
- B 4 : 3
- C 2 : 3
- D 4 : 1

Answer: B

#### Explanation:

Number of tickets sold by Airlines A and D (in thousands) = 5+3 = 8

Number of tickets sold by Airline E (in thousands) = 6

$$\Rightarrow \text{Required ratio} = \frac{8}{6} = \frac{4}{3}$$

∴ The ratio of tickets sold by Airlines A and D to tickets sold by Airline E = 4 : 3

=> Ans - (B)

### Question 50

If the price of an airline ticket is Rs 7000 then by what amount, monthly Revenue (in Rs. Millions) from sale of tickets of Airline B is greater than that of Airline E?

- A 77
- B 7
- C 35
- D 42

**Answer: C**

**Explanation:**

Price of 1 ticket = Rs. 7000

Number of tickets sold in Airline B = 11000

=> Revenue from sale of tickets of Airline B =  $7000 \times 11000 = \text{Rs. } 7,70,00,000$

Number of tickets sold in Airline E = 6000

=> Revenue from sale of tickets of Airline E =  $7000 \times 6000 = \text{Rs. } 4,20,00,000$

∴ Difference in revenues =  $\text{Rs. } (7,70,00,000 - 4,20,00,000) = \text{Rs. } 3,50,00,000$

= Rs. 35 millions

=> Ans - (C)

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### General Awareness

#### Instructions

For the following questions answer them individually

#### Question 51

In a market system, the central problems regarding how much and what to produce are solved through the coordination of economic activities brought about by \_\_\_\_\_ signals.

- A Supply
- B Demand
- C Price
- D Stock Market

**Answer: C**

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#### Question 52

\_\_\_\_\_ says that the marginal product of a factor input initially rises with its employment level. But after reaching a certain level of employment, it starts falling.

- A Law of diminishing marginal product
- B Law of variable proportions
- C The Short Run
- D The Long Run

**Answer: B**

#### Question 53

Constituent Assembly of India was founded in the year \_\_\_\_\_.

- A 1940

- B 1946
- C 1947
- D 1950

Answer: B

**Question 54**

Which Fundamental Right in the Indian Constitution allows citizens to move the court if they believe that any of their Fundamental Rights have been violated by the State?

- A Cultural and Educational Rights
- B Right to Constitutional Remedies
- C Right against Exploitation
- D Right to Freedom of Religion

Answer: B

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**Question 55**

During their rule the British persuaded or forced cultivators in Punjab to grow \_\_\_\_\_.

- A Jute
- B Tea
- C Sugarcane
- D Wheat

Answer: D

**Question 56**

The Red fort in Delhi was the residence of emperors of which dynasty in the 16th century?

- A Rajput
- B Khalji
- C Tughluq
- D Mughal

Answer: D

**Question 57**

India has a land boundary of about \_\_\_\_\_ km.

- A 5200
- B 10200

C 15200

D 20200

Answer: C

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Question 58

The Patkai hills belong to which mountain ranges?

A Himachal

B Purvanchal

C Himgiri

D Hindu Kush

Answer: B

Question 59

RBCs are formed in the \_\_\_\_\_ in the adults.

A blue bone marrow

B red bone marrow

C white bone marrow

D black bone marrow

Answer: B

Question 60

The later (second) formed primary xylem elements are called \_\_\_\_\_.

A Protoxylem

B Metaxylem

C Xylem parenchyma

D Xylem fibres

Answer: B

## General Science Notes for SSC CGL

Question 61

Which of the following does not hold true for Animal belonging to Phylum Chordate?

A Notochord present

B Pharynx perforated by gill slits.

C Heart is dorsal (if present)

D A post-anal part (tail) is present

Answer: C

**Question 62**

In science a push or pull of an object is called \_\_\_\_\_.

A Pick

B Lift

C Force

D Shut

Answer: C

**Question 63**

There are how many vocal cords in the human voice box?

A One

B Two

C Three

D Four

Answer: B

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**Question 64**

The attribute \_\_\_\_\_ specifies (in pixels) the distance between two adjacent cells.

A Width

B Height

C Cellpadding

D Cellspacing

Answer: D

**Question 65**

What is the name of the acid in an ant's sting?

A Acetic acid

B Citric acid

C Formic acid

D Lactic acid

Answer: C

Question 66

Which base is present in soap?

- A Sodium hydroxide
- B Silicon dioxide
- C Calcium hydroxide
- D Ammonium hydroxide

Answer: A

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Question 67

Any undesirable change in physical, chemical or biological characteristics of air, land, water or soil is called?

- A Greenhouse effect
- B Solid wastes
- C Pollution
- D Deforestation

Answer: C

Question 68

\_\_\_\_\_ scheme was launched by the Central Government to create awareness about the cleanliness of the children.

- A Sukanya Samridhi Yojana
- B Bal Swachta Mission
- C Pradhan Mantri Jan Dhan Yojana
- D Beti Bachao Beti Padhao Yojana

Answer: B

Question 69

Who discovered the colour photography?

- A Robert Noyce
- B Enrico Fermi
- C John Logie Baird
- D James Clerk Maxwell

Answer: D

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**Question 70**

**Who was the host nation of 2014 FIFA World Cup?**

- A Argentina
- B Netherlands
- C Germany
- D Brazil

**Answer: D**

**Question 71**

**Jama Masjid of Delhi was built by?**

- A Akbar
- B Humayun
- C Babar
- D Shah Jahan

**Answer: D**

**Question 72**

**Which of the following won the Oscars 2017 Best Picture?**

- A La La Land
- B Moonlight
- C Arrival
- D Fences

**Answer: B**

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**Question 73**

**Which of the statements given below are correct?**

1. The author of the novel 'Half of a Yellow Sun' is Chimamanda Ngozi Adichie.
2. The author of the novel 'Middlesex' is Jeffrey Eugenides.
3. The author of the novel 'Missile Gap' is China Mieville.

- A 1 and 2
- B 2 and 3
- C 1 and 3
- D 1, 2 and 3

**Answer: A**

**Question 74**

**Which company acquired LinkedIn For \$26.2 Billion?**

- A Apple
- B Facebook
- C Microsoft
- D IBM

**Answer: C**

**Question 75**

**Which of the following rivers flows from India to Pakistan?**

- A Satluj
- B Ghaghra
- C Betwa
- D Tapi

**Answer: A**

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### English

**Instructions**

For the following questions answer them individually

**Question 76**

**In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.**

She was so (a:/ near to (b:/ achieving her goal. (c:/No Error (d:

- A 1
- B 2
- C 3
- D 4

**Answer: B**

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**Question 77**

**In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.**

He watched as fights (a:/ broke out (b:/ along the city. (c:/No Error (d:



- A 1
- B 2
- C 3
- D 4

Answer: C

**Question 78**

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

Everyone was pleased to learn the actor would \_\_\_\_\_ his role as the captivating pirate.

- A reprise
- B rescue
- C save
- D free

Answer: A

**Question 79**

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

The diamond necklace was \_\_\_\_\_ too extravagant for a simple dinner party.

- A distance
- B long
- C very much
- D far

Answer: D

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**Question 80**

In the following question, out of the four alternatives, select the word similar in meaning to the word given.

**Fallacy**

- A Conformity
- B Surety
- C Bias
- D Evidence

Answer: C

**Question 81**

In the following question, out of the four alternatives, select the word similar in meaning to the word given.

**To reproach**

- A To commend
- B To laud
- C To exonerate
- D To admonish

**Answer: D**

**Question 82**

In the following question, out of the four alternatives, select the word opposite in meaning to the word given.

**Veneration**

- A Adoration
- B Contempt
- C Reverence
- D Admiration

**Answer: B**

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**Question 83**

In the following question, out of the four alternatives, select the word opposite in meaning to the word given.

**Impugnable**

- A Dicy
- B Debatable
- C Indubious
- D Hazy

**Answer: C**

**Question 84**

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

**To hit the nail on the head**

- A To take out frustration by beating a person
- B To make a wrong decision
- C To find exactly the right answer
- D To unwittingly fall into a trap]

Answer: C

**Question 85**

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

**On thin ice**

- A To keep failing after repeated efforts
- B To endure a harsh winter
- C To keep one's cool even in a tough situation
- D In a precarious or risky situation

Answer: D

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**Question 86**

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

All (was surprising) to find that he was not with them.

- A was surprised
- B were surprised
- C is surprised
- D no improvement

Answer: B

**Question 87**

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

Read in order (become) wise.

- A to have to be
- B to have become
- C to become
- D no improvement

Answer: C

**Question 88**

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

**Showing strong feeling**

- A Meek
- B Vehement

C Apathetic

D Impotent

Answer: B

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### Question 89

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

A sheath for the blade of a sword

A Scabbard

B Denude

C Divulge

D Expose

Answer: A

### Question 90

In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

A Litegants

B Litigents

C Litigants

D Litegents

Answer: C

### Question 91

In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

A Stoically

B Stoicaly

C Stoecally

D Stoecaly

Answer: A

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**Question 92**

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

The space in front of the large

X-hut was empty, but  
Y-placed several stools  
Z-before it were

- A XYZ
- B XZY
- C ZYX
- D ZXY

Answer: B

**Question 93**

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

From our common experience

X-of the relation of the  
Y-mental he starts out  
Z-physical and the

- A XYZ
- B XZY
- C ZYX
- D ZXY

Answer: B

**Question 94**

In the following question, a sentence has been given in Active/Passive voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active voice.

The maid vacuums and dusts the house every day.

- A Every day the house is vacuumed and dusted by the maid.
- B Every day the house were vacuumed and dusted by the maid.
- C Dusting and Vacuuming of the house every day is being done by the maid.
- D Dusting and Vacuuming of the house every day was being done by the maid.

Answer: A

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**Question 95**

In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct speech.

The spectators said, "Bravo! Good hit, Jay!"

- A The spectators applauded Jay for his good hit.
- B The spectators applauded Jay saying, bravo, good hit Jay.
- C The spectators applaud Jay for his good hit.
- D The spectators applaud Jay saying, bravo, good hit Jay.

**Answer: A**

**Instructions**

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

And then, a few glorious minutes \_\_\_\_\_(1)\_\_\_\_\_, it was time to reluctantly head ashore. \_\_\_\_\_(2)\_\_\_\_\_ time, the strokes were more fluid, the movements more relaxed. I turned back one last time \_\_\_\_\_(3)\_\_\_\_\_ hello to a clown fish, the reason why I came to the Andamans. As I watched, it played hide-and-seek \_\_\_\_\_(4)\_\_\_\_\_ a sea anemone, before frisking away. Suddenly, I realised a kinship with the blue waters \_\_\_\_\_(5)\_\_\_\_\_ the Bay of Bengal.

**Question 96**

(1)

- A late
- B later
- C lately
- D latest

**Answer: B**

**Question 97**

(2)

- A These
- B Those
- C At
- D This

**Answer: D**

**Question 98**

(3)

- A to say

B said

C saying

D says

Answer: A

Question 99

(4)

A to

B for

C from

D with

Answer: D

Question 100

(5)

A for

B from

C to

D of

Answer: D

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